

What is claimed is:

1. An optical communication module, comprising:
  - a substrate;
  - a transmitter comprising a light-emitter element and a driver IC operative to drive said light-emitter;
  - a receiver comprising a photodetector element and an amplifier IC operative to amplify an output signal from said photodetector; and
  - circuit components accompanied with said said transmitter and receiver;
- wherein said transmitter, receiver and circuit components are implemented on said substrate, wherein said substrate comprises a ceramic substrate made of laminated green sheets and at least two recesses formed thereon, and said light-emitting element and photodetector element are mounted into said separate recesses and said recesses are separately covered with a mold resin by molding, and wherein depths of said recesses formed are each deeper than a mounted height of said light-emitter or photodetector elements mounted thereinto.
2. The optical communication module according to claim 1, wherein a color of said ceramic substrate is white.
- 25 3. The optical communication module to claim 1 or 2, wherein said recesses include at least a recess exclusive for said light-emitter element and a recess exclusive for said photodetector element, each exclusive recess being formed in a tapered shape with a conical horn within a range of a depth roughly corresponding to that of the mounted heights of the elements, and said elements mounted in said exclusive recesses being separately covered with a transparent resin.

4. The optical communication module according to any one of claim 1 to 3, wherein each covering in said recess is molded by means of a potting mold method using a dispenser.